



Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

PROCEEDINGS
OF THE
ACADEMY OF NATURAL SCIENCES
OF
PHILADELPHIA.

1897.

COMMITTEE ON PUBLICATION:

THOMAS MEEHAN,	CHARLES E. SMITH,
EDWARD J. NOLAN, M. D.,	GEORGE H. HORN, M. D.,
HENRY SKINNER, M. D.	

EDITOR: EDWARD J. NOLAN, M. D.

PHILADELPHIA:
ACADEMY OF NATURAL SCIENCES,
LOGAN SQUARE,
1898.

ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA,
February 3, 1898.

I hereby certify that printed copies of the Proceedings of the Academy for 1897 have been presented to the meetings of the Academy and mailed as follows :—

Pages	9 to 24	mailed February	23, 1897,	presented February	23, 1897.
"	25 to 72	" March	2, 1897,	" March	2, 1897.
"	73 to 120	" March	4, 1897,	" March	9, 1897.
"	121 to 136	" March	16, 1897,	" March	16, 1897.
"	137 to 152	" April	21, 1897,	" April	20, 1897.
"	153 to 165	" April	23, 1897,	" April	27, 1897.
"	165 to 196	" May	10, 1897,	" May	11, 1897.
"	197 to 228	" May	22, 1897,	" May	25, 1897.
"	229 to 276	" June	15, 1897,	" June	15, 1897.
"	277 to 308	" June	18, 1897,	" June	22, 1897.
"	309 to 324	" July	19, 1897,	" July	20, 1897.
"	325 to 340	" October	18, 1897,	" October	19, 1897.
"	341 to 372	" November	23, 1897,	" November	23, 1897.
"	373 to 388	" December	27, 1897,	" December	28, 1897.
"	389 to 452	" December	13, 1897,	" December	14, 1897.
"	453 to 500	" January	18, 1898,	" January	18, 1898.

EDWARD J. NOLAN,
Recording Secretary.

LIST OF CONTRIBUTORS.

With reference to the several articles contributed by each.

For Verbal Communications, Announcements, etc., see General Index.

ALLEN, HARRISON, M. D. Observations on <i>Tarsius fuscus</i> . . .	34
BENEDICT, JAMES E., PH. D. A Revision of the Genus <i>Synapta</i> .	389
BRINTON, DANIEL G., M. D. Dr. Allen's Contributions to Anthropology	522
COCKERELL, T. D. A. New and Little-known North American Bees	334
COCKERELL, T. D. A. and WM. J. FOX. New Fossorial Hymenoptera from New Mexico	135
FORD, JOHN. <i>Cypræa lynx</i> deformed by Disease	328
FOX, WILLIAM J. Contributions to a knowledge of the Hymenoptera of Brazil, No. 2—Pompilidæ (Plate IV)	229
Contributions to a knowledge of the Hymenoptera of Brazil, No. 3—Sphegidæ (sens. lat.)	373
FRAZER, DR. PERSIFOR. Geological Section from Moscow to Siberia and Return	405
HEATH, HAROLD. External Features of Young <i>Cryptochiton</i> (Plate VIII)	299
JORDAN, DAVID STARR and CLOUDSLEY RUTTER. A Collection of Fishes made by Joseph Seed Roberts in Kingston, Jamaica .	91
KELLER, IDA A. Notes on Underground Runners (Plate III) .	161
Notes on Plant Monstrosities (Plate V)	288
MEEHAN, THOMAS. Contributions to the Life Histories of Plants, No. XII: The Fecundity of <i>Heliophyllum indicum</i> ; The Origin of the Forms of Flowers; Spines in the <i>Citrus</i> Family; Flowers and Flowering of <i>Lamium purpureum</i> ; Cleistogamy in <i>Umbelliferæ</i> ; Rhythmic Growth in Plants; Pellucid Dots in some Species of <i>Hypericum</i> ; Honey Glands of Flowers; Varying Phyllotaxis in the Elm; Folial Origin of Cauline Structures; Polarity in the Leaves of the Compass and other Plants; Hybrids in Nature;	

Origin and Nature of Glands in Plants; Nutrition as affecting the forms of Plants and their Floral Organs; Some Neglected Studies	169
MORRIS, CHARLES. The Primeval Ocean	12
NOLAN, EDW. J., M. D. Biographical Notices of Harrison Allen and George Henry Horn	505
PALMER, T. CHALKLEY. Demonstrations of Absorptions of Car- bon Dioxide and of the Generation of Oxygen by Diatoms.	142
PILSBRY, H. A. Descriptions of new South American Bulimuli.	18
New Species of Mollusks from Uruguay (Plates VI and VII).	290
New Achatinidæ and Helicidæ from Somaliland	357
New Australian Mollusks (Plate IX)	360
New Brazilian Streptaxidæ	477
Descriptions of two New Forms of Perideris	503
PILSBRY, H. A. and BENJAMIN SHARP, M. D. Scaphopoda of the San Domingo Tertiary (Plates X and XI)	465
PILSBRY, H. A. and E. G. VANATTA. Descriptions of two new Species of Cerion	365
RHOADS, SAMUEL N. A Contribution to the Mammalogy of Northern New Jersey	23
A Contribution to the Mammalogy of Central Pennsylvania.	204
A new Southeastern Race of Little Brown Bat	227
A Revision of the West American Flying Squirrels	314
Notes on Living and Extinct Species of North American Bovidæ (Plate XII)	483
Dr. Allen's Zoological Work	518
RHOADS, SAMUEL N. and ROBERT T. YOUNG. Notes on a Collection of small Mammals from Northeastern North Carolina	303
RUTTER, CLOUDSLEY. A Collection of Fishes obtained in Swatow, China, by Miss Adele M. Fielde	56
SCHIVELY, MARY A., M. D. The Anatomy and Development of Spirorbis borealis (Plates I and II)	153
SMITH, JOHN B. Dr. Horn's Contributions to Coleopterology	529
STONE, WITMER. The Genus Sturnella	146
On the Annual Molt of the Sanderling	368
VAN DENBURGH, JOHN. Reptiles from Sonora, Sinaloa and Jalisco, with a Description of a new Species of Scelo- porus	460